## Appendix



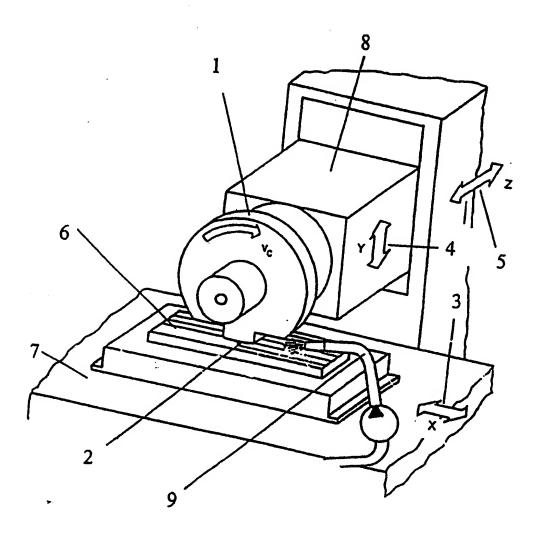


Figure 1



## **Grinding Conditions:**

Material:

Cutting speed v<sub>c</sub>: Feed motion a<sub>a</sub>:

Work piece speed vw:

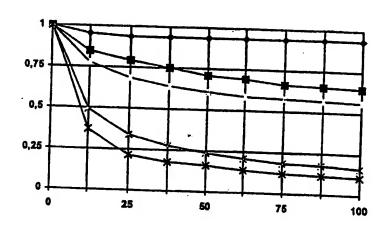
Coolant:

100Cr6

30m/s 20 μm

0.5 mm/s 3% emulsion





mm scratch length

Figure 2

cBN

Example 4

sol/gel corundum

melt corundum

structure ceramics (Al2O3/5%SiC)



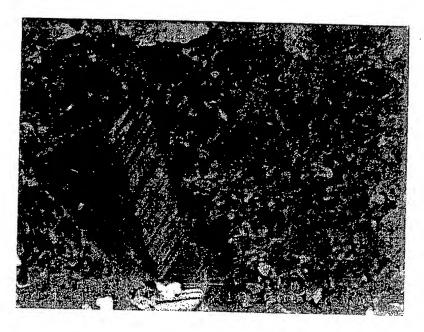


Figure 3

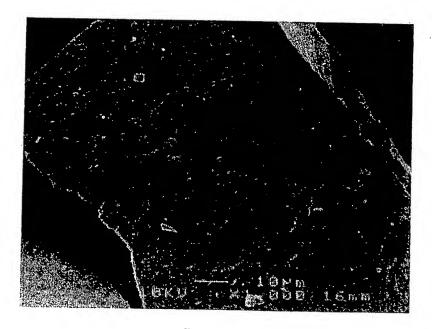


Figure 4

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## -Abbildungen

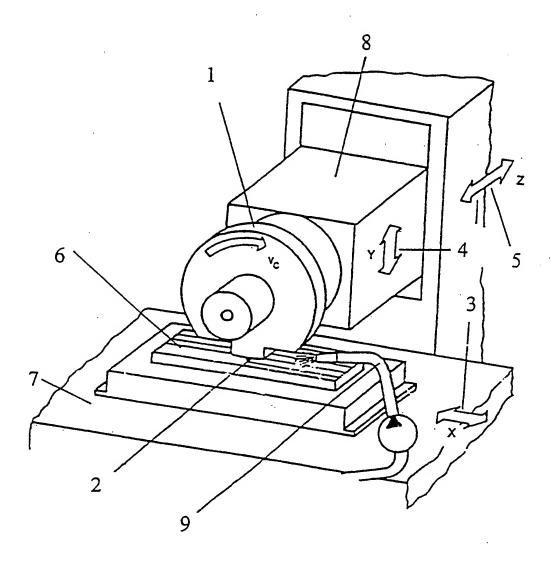


Abb. 1: Prinzipieller-Aufbau des Prüfstandes zum Einkornritzen

Figure 1



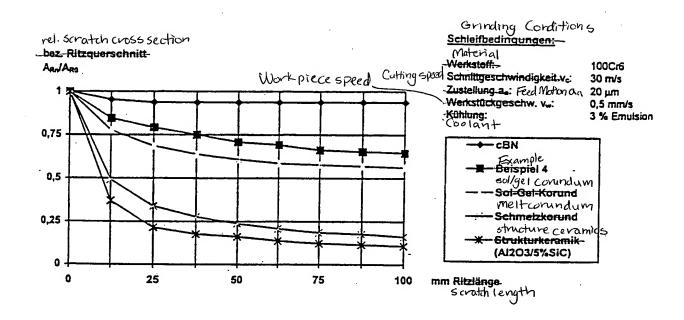


Abb. 2: Verschleißkurven von Al<sub>2</sub>O<sub>3</sub>/SiC-Nanokomposits im Vergleich zu einigen typischen Schleißkornungen

Figure 2





FIG. # Figure 3

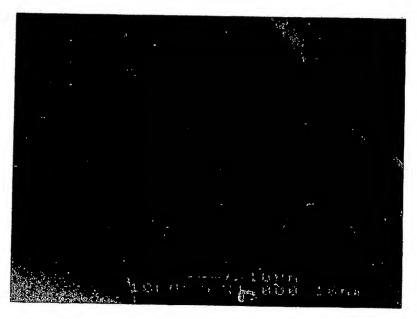


FIG. 4 Figure 4